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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/021,621-Conf. #5221
				Filing Date	December 12, 2001
				First Named Inventor	Eric J. Horvitz
				Art Unit	2444
				Examiner Name	P. A. Shaw
Sheet	1	of	12	Attorney Docket Number	M1103.70715US00

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1*	US-D494,584	08-17-2004	Schlieffers et al.	
	A2*	US-7,385,501	06-10-2008	Miller et al.	
	A3*	US-7,259,694	08-21-2007	Myllymaki et al.	
	A4*	US-7,209,955	04-24-2007	Major et al.	
	A5*	US-7,195,157	03-27-2007	Swartz et al.	
	A6*	US-7,171,378	01-30-2007	Petrovich et al.	
	A7*	US-7,162,238	01-09-2007	Massie et al.	
	A8*	US-7,155,729	12-26-2006	Andrew et al.	
	A9*	US-7,139,718	11-21-2006	Jeyachandran et al.	
	A10*	US-7,073,129	07-04-2006	Robarts et al.	
	A11*	US-7,069,309	06-27-2006	Doddrill et al.	
	A12*	US-7,063,263	06-20-2006	Swartz et al.	
	A13*	US-7,040,541	05-09-2006	Swartz et al.	
	A14*	US-7,016,944	03-21-2006	Meyer et al.	
	A15*	US-7,010,501	03-07-2006	Roslak et al.	
	A16*	US-6,965,917	11-15-2005	Aloni et al.	
	A17*	US-6,853,634	02-08-2005	Davies et al.	
	A18*	US-6,837,436	01-04-2005	Swartz et al.	
	A19*	US-6,829,639	12-07-2004	Lawson et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
	B1	EP-0095633-A1	12-07-1983	Iveco Magirus	<input checked="" type="checkbox"/>
	B2	EP-0413537-A2	02-20-1991	Digital Equipment Int	<input type="checkbox"/>
	B3	EP-0420779-A2	04-03-1991	Ibm	<input type="checkbox"/>
	B4	EP-0867823-A2	09-30-1998	Canon Kk	<input type="checkbox"/>
	B5	EP-0905633-A2	03-31-1999	Sharp Kk	<input type="checkbox"/>
	B6	GB-2328110-A	02-10-1999	Mitel Corp	<input type="checkbox"/>

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		Number-Kind Code ² (if known)			
	A20*	US-6,796,505	09-28-2004	Pellaumail et al.	
	A21*	US-6,741,188	05-25-2004	Miller et al.	
	A22*	US-6,714,967	03-30-2004	Horvitz	
	A23*	US-6,697,840	02-24-2004	Godefroid et al.	
	A24*	US-6,678,719	01-13-2004	Stimmel	
	A25*	US-6,674,720	01-06-2004	Passint et al.	
	A26*	US-6,672,506	01-06-2004	Swartz et al.	
	A27*	US-6,650,902	11-18-2003	Richton	
	A28*	US-6,622,160	09-16-2003	Horvitz	
	A29*	US-6,618,716	09-09-2003	Horvitz	
	A30*	US-6,593,943	07-15-2003	MacPhail	
	A31*	US-6,591,279	07-08-2003	Emens et al.	
	A32*	US-6,590,587	07-08-2003	Wichelman et al.	
	A33*	US-6,584,502	06-24-2003	Natarajan et al.	
	A34*	US-6,577,329	06-10-2003	Flickner et al.	
	A35*	US-6,563,514	05-13-2003	Samar	
	A36*	US-6,549,219	04-15-2003	Selker	
	A37*	US-6,513,026	01-28-2003	Horvitz et al.	
	A38*	US-6,480,207	11-12-2002	Bates et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B7	JP-08314827-A	11-29-1996	Hitachi Ltd		✓
	B8	JP-10079756-A	03-24-1998	Fujitsu Ltd		✓
	B9	WO-0036493-A1	06-22-2000	Tangis Corp et al.		
	B10	WO-02065250-A2	08-22-2002	Invertix Corp		
	B11	WO-0239761-A2	05-16-2002	Motorola Inc		
	B12	WO-2004025912-A2	03-25-2004	Ibm et al.		

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Sheet	3	of	12		

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		Number-Kind Code ² (if known)			
	A39*	US-6,463,471	10-08-2002	Dreke et al.	
	A40*	US-6,459,913	10-01-2002	Cloutier	
	A41*	US-6,459,440	10-01-2002	Monnes et al.	
	A42*	US-6,456,307	09-24-2002	Bates et al.	
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	A45*	US-6,425,127	07-23-2002	Bates et al.	
	A46*	US-6,400,810	06-04-2002	Skladman et al.	
	A47*	US-6,374,289	04-16-2002	Delaney et al.	
	A48*	US-6,360,101	03-19-2002	Irvin	
	A49*	US-6,353,398	03-05-2002	Amin et al.	
	A50*	US-6,342,908	01-29-2002	Bates et al.	
	A51*	US-6,337,699	01-08-2002	Nielsen	
	A52*	US-6,332,127	12-18-2001	Bandera et al.	
	A53*	US-6,327,581	12-04-2001	Platt	
	A54*	US-6,301,609	10-09-2001	Aravamudan et al.	
	A55*	US-6,289,380	09-11-2001	Battat et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B13	WO-9635994-A1	11-14-1996	Compuserve Inc		
	B14	WO-9738382-A1	10-16-1997	Siemens Ag et al.		
	B15	WO-9800787-A1	01-08-1998	Datalink Systems Corp		
	B16	WO-9837680-A2	08-27-1998	Intervoice Lp		
	B17	WO-9847268-A1	10-22-1998	British Telecom et al.		
	B18	WO-9858321-A1	12-23-1998	Purdue Pharma Lp et al.		

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		Number-Kind Code ² (if known)			
	A58*	US-6,199,106	03-06-2001	Shaw et al.	
	A59*	US-6,167,448	12-26-2000	Hemphill et al.	
	A60*	US-6,144,363	11-07-2000	Alloul et al.	
	A61*	US-6,094,681	07-25-2000	Shaffer et al.	
	A62*	US-6,078,322	06-20-2000	Simonoff et al.	
	A63*	US-6,067,565	05-23-2000	Horvitz	
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	A65*	US-6,057,842	05-02-2000	Knowlton et al.	
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	A68*	US-5,987,234	11-16-1999	Hirosawa et al.	
	A69*	US-5,973,612	10-26-1999	Deo et al.	
	A70*	US-5,928,330	07-27-1999	Goetz et al.	
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	A74*	US-5,831,545	11-03-1998	Murray et al.	
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	B19	WO-9906915-A1	02-11-1999	Jfax Communications Inc		
	B20	WO-9941720-A1	08-19-1999	Genesys Telecomm Lab Inc		
	B21	WO-9967731-A1	12-29-1999	Microsoft Corp		

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Sheet	5	of	12			

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	A77*	US-5,757,916	05-26-1998	MacDoran et al.	
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	A79*	US-5,751,965	05-12-1998	Mayo et al.	
	A80*	US-5,742,905	04-21-1998	Pepe et al.	
	A81*	US-5,736,974	04-07-1998	Selker	
	A82*	US-5,717,877	02-10-1998	Orton et al.	
	A83*	US-5,644,363	07-01-1997	Mead	
	A84*	US-5,615,325	03-25-1997	Peden	
	A85*	US-5,555,346	09-10-1996	Gross et al.	
	A86*	US-5,508,817	04-16-1996	Kunigami	
	A87*	US-5,471,399	11-28-1995	Tanaka et al.	
	A88*	US-5,423,043	06-06-1995	Fitzpatrick et al.	
	A89*	US-5,377,354	12-27-1994	Scannell et al.	
	A90*	US-4,789,962	12-06-1988	Berry et al.	
	A91*	US-2008-0161018	07-03-2008	Miller et al.	
	A92*	US-2008-0091537	04-17-2008	Miller et al.	
	A93*	US-2008-0090591	04-17-2008	Miller et al.	
	A94*	US-2007-0214228	09-13-2007	Horvitz et al.	
	A95*	US-2007-0011314	01-11-2007	Horvitz et al.	

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	A96*	US-2006-0019676	01-26-2006	Miller et al.	
	A97*	US-2005-0272442	12-08-2005	Miller et al.	
	A98*	US-2005-0266858	12-01-2005	Miller et al.	
	A99*	US-2005-0248437	11-10-2005	Hellebust et al.	
	A100*	US-2005-0050143	03-03-2005	Gusler et al.	
	A101*	US-2004-0225718	11-11-2004	Heinzel et al.	
	A102*	US-2004-0201500	10-14-2004	Miller et al.	
	A103*	US-2004-0199663	10-07-2004	Horvitz et al.	
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	A111*	US-2002-0174199	11-21-2002	Horvitz	
	A112*	US-2002-0171581	11-21-2002	Sheynblat et al.	
	A113*	US-2002-0087649	07-04-2002	Horvitz	
	A114*	US-2002-0054117	05-09-2002	van Dantzich et al.	

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Sheet	7	of	12
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	BACLACE, "Competitive Agents for Information Filtering", December 1999, 1 pg	
	C2	BOONE, "Concept Features in Re: Agent, an Intellectual Email Agent, 1998, 8 pgs	
	C3	BREESE et al., "Empirical analysis of predictive algorithms for collaborative filtering", Proceedings of the 14th Conference on Uncertainty in AI, 1998 pg. 43-52, AUAI, Morgan Kaufmann, San Francisco	
	C4	CAMERON et al. "Identifying and Localizing Electrical Components: A Case Study of Adaptive Goal-directed Sensing", 1997, 6 pgs.	
	C5	CHANG et al., "Bayesian Analysis for Fault Location in Homogeneous Distributed Systems", 1993, 10 pgs	
	C6	CHEN, "Visualising semantic spaces and author co-citation networks in digital libraries", 1999, 20 pgs.	
	C7	CHU et al., "A Decision-Theoretic Approach to Reliable Message Delivery", 15 pgs	
	C8	COHEN, "Learning Rules that Classify E-Mail", 1996, 11 pgs	
	C9	CZERWINSKI et al., "Visualizing implicit queries for information management and retrieval", Proceedings of CHI'99, ACM SIGCHI Conf on Informational and Knowledge Management, 1999, pg. 560-567	
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				Application Number	10/021,621-Conf. #5221
				Filing Date	December 12, 2001
				First Named Inventor	Eric J. Horvitz
				Art Unit	2444
				Examiner Name	P. A. Shaw
Sheet	9	of	12	Attorney Docket Number	M1103.70715US00

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C11	EP Search Report dtd 7/5/04 for EP Application No. 04 00 0621	
	C12	EP Search Report dtd 9/28/05 for EP Application No. 05 10 5299	
	C13	HADDAWY, "An Overview of Some Recent Developments in Bayesian Problem-Solving Techniques Introduction to This Special Issue", 1999, 9 pgs	
	C14	HEARST et al., "Machine Learning in Information Access Papers from the 1996 AAAI Spring Symposium", 1996, 3 pgs	
	C15	HORVITZ et al., "Display of Information for time-critical decision making" Proceedings of the 11th Conference on uncertainty in AI, 1995, pg. 296-305, Montreal, Canada	
	C16	HORVITZ et al., "Models of Attention in Computing and Communication: From principles to Applications", Communications to the ACM 46(3):56-29, March 2003	
	C17	HORVITZ, "Principles of mixed-initiative user interfaces" Proceedings of CHI'99, ACM SIGCHI Conf on Human Factors in Computing Systems, 1999, pgs. 159-166, Pittsburgh, PA	
	C18	HORVITZ, "Time dependant utility and action under uncertainty", Proceedings of the 7th Conference on Uncertainty in AI, LA, CA, 1991 pgs. 151-158, Morgan Kaufmann, San Francisco	
	C19	HORVITZ, "Time-critical action: Representations and Application", Proceedings of the 13th Conference on Uncertainty in AI(UAI-97), 1997, pgs.250-257, Providence, RI, Morgan Kaufmann, San Francisco	
	C20	International Search Report dated August 20, 2002 for International Application Serial No. PCT/US01/08711	

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	C21	International Search Report dated June 28, 2006 for International Application Serial No. PCT/US04/19915	
	C22	International Search Report dated September 2, 2002 for International Application Serial No. PCT/US01/08710	
	C23	International Search Report dated September 29, 2003 for International Application Serial No. PCT/US00/20685	
	C24	IWAYAMA et al., "Hierarchical Bayesian Clustering for Automatic Text Classification", 1995, 6 pgs.	
	C25	JENSEN, "Bayesian networks basics", Winter 1995/ Spring 1996, 14 pgs.	
	C26	KOLLER et al., "Toward optimal feature selection", Proceedings of 13th conference on machine learning, 1998, pg. 284-293, Morgan Kaufmann, San Francisco	
	C27	LEIBERMAN, "Letizia: An Agent that assists web browsing", Proceedings of IJCAI-95, 1995, 6 pgs, Montreal, Canada, Morgan Kaufmann, San Francisco	
	C28	MACSKASSY et al., "EmailValet: Learning Email Preferences for Wireless Platforms", Rutgers University, user Modeling 1999 Workshop - Machine Learning for User Modeling, June 3, 1999, 4 pgs	
	C29	MCCRICKARD et al., "Attuning Notification Design to User Goals and Attention Costs" Communications of the ACM, vol. 46 Issue 3, pp. 67-72, 2003	
	C30	NOH et al., "Rational Communicative Behavior in Anti-Air Defense", 1998, 8 pgs.	

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	C31	PALME et al., "Issues when designing filters in messaging systems", 1996, 7 pgs	
	C32	PLATT, "Fast Training of Support Vector Machines Using Sequential Minimal Optimization", Advances in Kernel Methods, Support Vector Learning, 1999 pg. 41-65, MIT Press, Cambridge, MA.	
	C33	PLATT, "Probabilistic outputs for support vector machines and comparisons to regularized likelihood methods." Advances in Large Margin Classifiers. MIT Press, Cambridge, MA. 1999, 11 pages.	
	C34	SAHAMI et al., "A Bayesian approach to filtering junk email" Workshop on learning for text categorizations, 1998, 8 pgs, AAI technical Report WS-98-05, AAAI	
	C35	SAWHNEY et al., "Nomadic Radio: Speech and Audio Interaction for Contextual Messaging in Nomadic Environments", ACM Transactions on Computer-Human Interaction, ACM, September 1, 2000, pp. 353-383	
	C36	SAWHNEY et al., "Speaking and Listening on the Run: Design for Wearable Audio Computing", 1998, 8 pgs	
	C37	SEHGMANN et al., "The message is the medium", 1997, 12 pgs.	
	C38	SHELL et al., "Interacting with Groups of Computers", Communications of the ACM, Vol 46 Issue 3, pp. 40-46, 2003	
	C39	TSATSOULIS et al., "integrating Case-Based Reasoning and Decision Theory", 1997, 10 pgs	
	C40	VAN DANTZICH et al., "Scope: Providing Awareness of Multiple Notifications at a Glance", Proceedings of AVI 2002, ACM Conference on Advanced Visual Interfaces, 2002, 11 pgs	

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	C41	VERTEGAAL, "Designing Attentive Interfaces", Proceedings of the Symposium on ETRA 2002: Eye tracking research and applications symposium, pp. 23-30, 2002.	

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